

Enviva Pellets Hamlet, LLC Fact Sheet

Permit 10365R03 is a modification of the facility’s existing PSD permit. The changes requested in this modification are: the addition of pollution control devices, a production rate increase and the reclassification as a PSD Minor stationary source.

Control devices

The permit allows the installation of a regenerative thermal oxidizer to control emissions from the dryer and hammermills and a regenerative catalytic oxidizer to control emissions from the pellet mills and pellet coolers. These control devices significantly reduce emissions of volatile organic compounds (VOC) and hazardous air pollutants (HAP). A baghouse is included to control dust emissions. The reduction in estimated emissions allows the facility to be reclassified as PSD Minor, with each criteria pollutant permitted at less than 250 tons per year.

Changes from the draft permit to the final permit

After a thorough review of concerns raised in public comments, the draft permit was revised to include additional testing.

Draft Permit	Final Permit
Initial testing of VOC, NOx, and CO	Initial testing to establish emission factors for VOC, NOx, CO, PM, PM10, PM2.5 At minimum, annual testing required. Periodic testing triggered any time the monthly production rate or softwood percentage increases by more than 10% over the rates of the initial (or most recent) performance test, with production not to exceed 625,011 oven dried tons per year or 85% softwood.
Initial testing of total Hazardous Air Pollutants (HAP).	Initial testing to establish emission factors for acetaldehyde, acrolein, formaldehyde, methanol, phenol, and propionaldehyde. At minimum, annual testing required. Periodic testing triggered any time the monthly production rate or softwood percentage increases by more than 10% over the rates of the initial (or most recent) performance test, with production not to exceed 625,011 oven dried tons per year or 85% softwood.

With installed controls, the estimated VOC and HAP emissions at the maximum requested production rate are significantly lower than at the production rate in the original permit without control technology. The additional testing will confirm emissions to ensure compliance with the limits set out in the permit and establish emission factors to inform future permitting actions.

Public engagement

In addition to standard public notice of the draft permit and public hearing, additional outreach by DEQ staff included communicating and meeting with representatives of a citizens group and environmental organization prior to the public hearing. In response to the public comments, air quality staff ran expanded modeling to analyze emissions of particulate matter and nitrogen oxide in a wider area to include the nearby communities of Hamlet and Dobbins Heights. Environmental Justice staff also expanded their demographic and socioeconomic analysis to include those communities. DEQ staff carefully reviewed the expanded area before issuing the permit.

Compliance

All of the testing, monitoring, and recordkeeping requirements are intended to ensure emissions remain at or below permitted levels to protect the community around the facility. The periodic testing requirement also means DAQ will be able to confirm actual emissions at the specified changes in production rate or softwood percentage. Test results will also be compared to the emissions factors the permit was based on.

As with all Title V facilities, Enviva Pellets Hamlet will be subject to annual inspections. These inspections are unannounced and include inspection of equipment and a careful review of all records, to look for deviations, inconsistencies and malfunctions.

If at any time a resident has concerns about emissions or odor from the facility, they can contact the regional DAQ office at 910-433-3300 so staff can investigate.